# New York State Department of Transportation Yellow Flag NB2222W013

By: Sahadeo Bhagwandin Flag Date: June 01, 2022

Superseding Information:

No Flags Superseded

#### Structure Information

BIN: 1065318 Region: 11 - NEW YORK CITY

Feature Carried: 278I278IX2M23027 County: KINGS

Feature Crossed: 6TH AVENUE Political Unit: City of NEW YORK
Orientation: 8 - NORTHWEST Approximate Year Built: 1962

Posted Load Matches Inventory: Yes

Bridge Load Posting (Tons): Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp Number of Spans: 322

#### **Verbal Notification Information**

Person Notified: Heinz Joachim, P.E. Date: June 01, 2022 10:00:00 AM

Of: NYSDOT Region 11

#### Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1 Date: June 16, 2022

Reviewed By: Robert Kemp Date: June 16, 2022

Attachments: 7

Flag Date: June 01, 2022

## Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 158			
	PR831 - Steel Beam End	34	each
	113 - Steel Stringer	104	ft

## Flagged Condition Description

This Yellow Flag No. NB2222W013 is (NEW).

Location: Span 158 – Stringer S1 at Pier 157 over 3rd Avenue Westbound

Description: Stringer S1, supporting the Railing/Parapet above deck, exhibits severe corrosion of the web with several large corrosion holes adjacent to the connection angles. The web height between the top and bottom flange angles is 12.5" H. The hole at the top of the web is 5" H x 2" W, at mid-web is 2" L x ½" W and lower web is 2-1/2" L x 1" H. D-Meter readings indicate remaining web between the upper corrosion holes as 0.142" and between the lower 2 holes as 0.133". Overall web section loss is approximately 87%. See sketch for details.

This is a new flag.

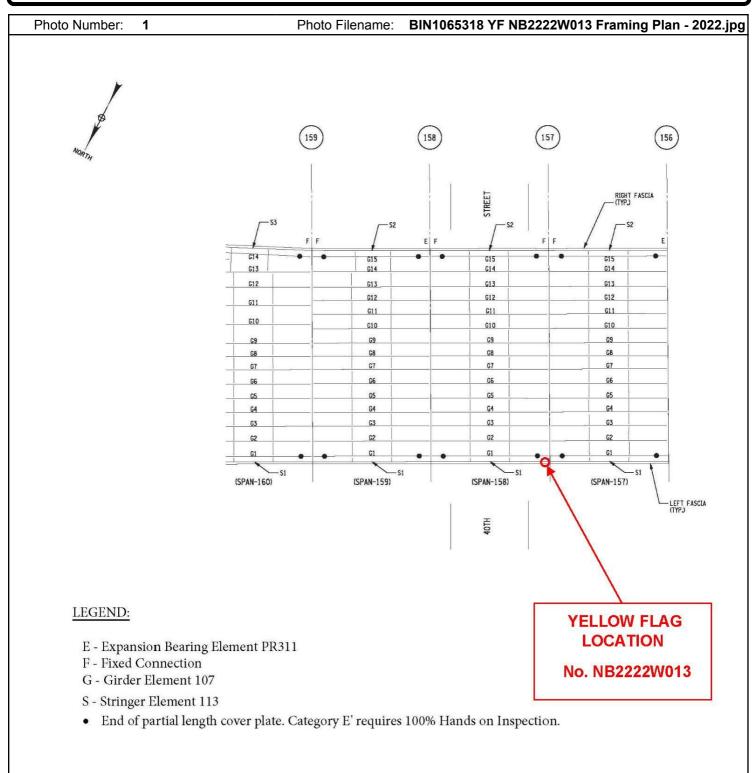
#### Notes:

- 1. Stringer S1 receives no direct live loading, but supports the barrier/railing above.
- 2. No deformation was observed in any part of Stringer S1 connection to Pier 157 Pier Cap.
- 2. The adjacent Girder G1 spaced 2'-3" center to center is in fair condition.
- 3. Stringer S1 at Span 157, Pier 157 begin face exhibits corrosion at bottom flange for 24" long section with up to 1/8" section loss and 2 corrosion holes adjacent to the bearing. (Repair Required)
- 4. Double left lane closure at 3rd Avenue Out-Bound (Verrazano Bridge) between 39th and 40th Streets, and a 35' bucket truck are required to access this location.

Page 2 of 9

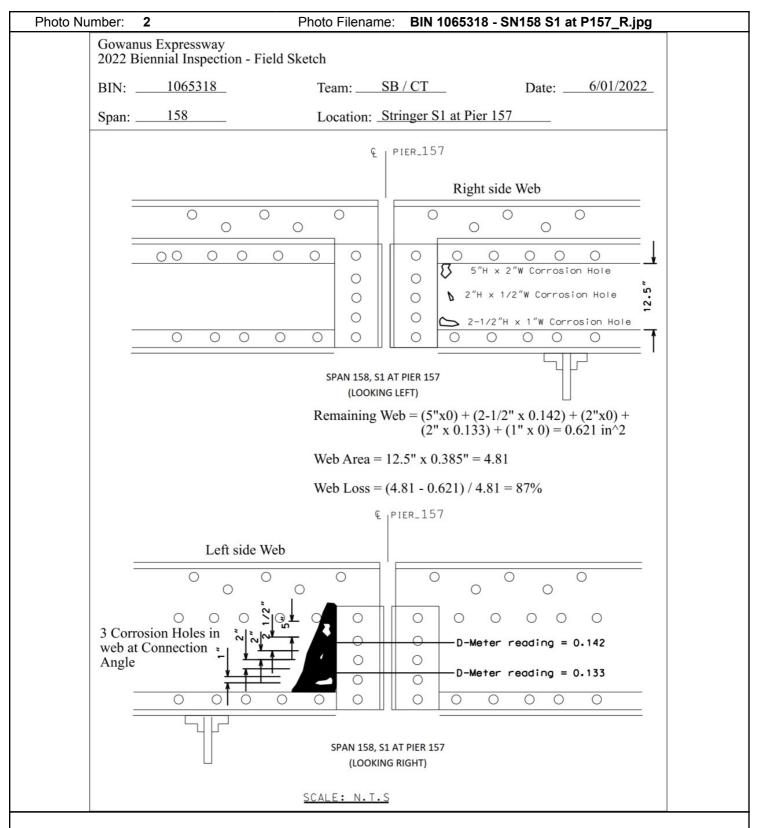
Flag Date: June 01, 2022

# Flag Photographs



Attachment Description: SN 158 S1 at Pier 157 Framing Plan





Attachment Description: SN 158 S1 at Pier 157 Sketch

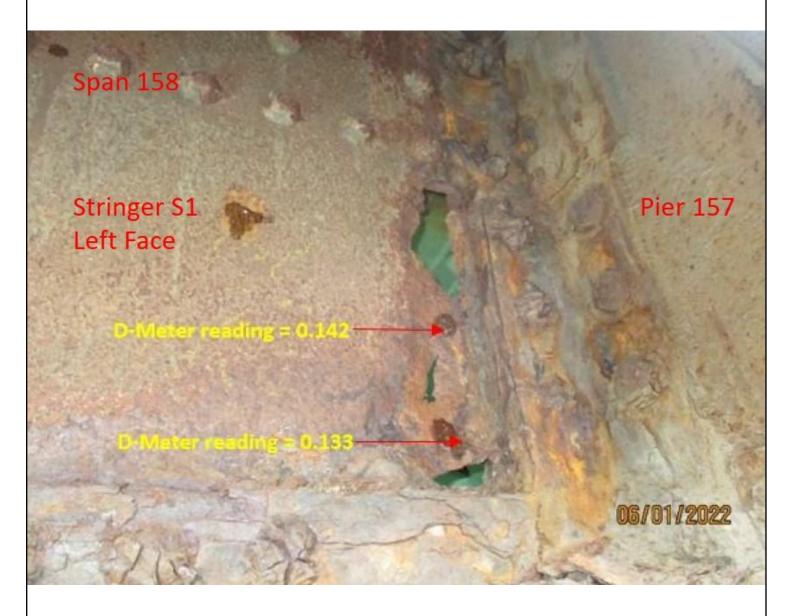
Photo Number: 3 Photo Filename: Photo 1-IMG\_6254--edit.jpg



Attachment Description: Photo 1: General view of Flag location at Pier 157. Looking begin.

BIN 1065318

Flag Date: June 01, 2022 Photo Filename: Photo 2-IMG\_6200--edit-2.jpg Photo Number:



Attachment Description: Photo 2: Span 158, Stringer S1 at Pier 157 - Corrosion holes at web of Stringer S1. Looking right

Photo Number: 5 Photo Filename: Photo 3-IMG\_6192-edit-2.jpg



Attachment Description: Photo 3: Span 158, Stringer S1 at Pier 157 - General view at right side web of stringer.

Looking begin left.

Photo Number: 6 Photo Filename: Photo 4-IMG\_6195--edit-2.jpg



Attachment Description: Photo 4: Span 158, Stringer S1 at Pier 157 - Close up view of corrosion holes at lower section of web measuring 2-1/2"L x 1"H and 2"H x 1/2" wide. Looking left.

Photo Number:

Photo 5-IMG\_6196--edit-3.jpg

BIN 1065318 Flag Date: June 01, 2022

Photo Filename:



Attachment Description: Photo 5: Span 158, Stringer S1 at Pier 157 - Large corrosion hole at upper section of web measuring 5"H x 2"W. Looking left.